TEYTEL BAUM, B.Ya.; GUBANOV, E.F.

Thermomechanical characteristic of the molecular weight of linear polymers as exemplified by natural rubber. Dokl. AN SSSR 149 no.6:1384-1386 Ap '63. (MIRA 16:7)

1. Institut organicheskoy khimii im. A.Ye.Arbuzova AN SSSR. Predstavleno akademikom B.A.Arbuzovym. (Polymers-Thermal properties) (Molecular weights)

されないないないないない THE PROPERTY OF THE PARTY OF TH EPR/EWP(j)/EPF(c)/EWT(m)/ L 16975-63 s/020/63/149/006/022/027 BDS AFFTC/ASD Ps-L/Pc-L/Pr-L RM/WW Teytel baum, B. Ya., and Gubenov, AUTHOR: Thermomechanical characteristic of the molecular weight of linear TIME: polymers, with natural rubber as the example Akademiya nauk SSSR. Doklady. v. 149, no. 6, 1963, 1384-1386 Theoretical and experimental studies have demonstrated the possibility of estimating the molecular weight of polymers on the basis of the investigation of its thermomechanical properties. An equation has been offered relating the molecular weight M to the embrittlement temperature Te and pour point Tp.p. The pour point a polymer can be largely established by determining the end point of penetration Ten found from the thermomechanical curve, which characterizes the viscosity and even molecular weight of the polymers. The authors verified this by their studies of specimens of natural rubber with different molecular weight. By special experiments they established that the value of Tep is the same at temperatures below tile embrittlement temperature and at room temperature, when recording the thermomechanical curve. Thus it is possible to determine Tep as a function of molecular weight. This method can also be applied to crystellizing polymers, provided the multing point of the crystalline phase is below the pour point. There are 2 figures. Institut organicheskoy knimii im. A. Ye. Arbuzova Akedemii nauk SSSR. (Institute of Organic Chemistry iment A. Ye. Arbuzov, Academy of ASSOCIATION: SURALTTED: December 27, 1962

TEYTEL BAUM, B.Ya.; DIANOV, M.P.; BEREGOVSKAYA, M.G.; YAGFAROVA, T.A.

Thermomechanical curves of some rubbers. Kauch.i rez. 21
(MIRA 16:5)
no.8:3-6 Ag '62.
(Rubber--Testing)

TEXTEL BAUM, B.Ya.; DIANOV, M.P.

Light absorption of picric acid solutions in the presence of aromatic hydrocarbons of the kerosine fractions of the Tatar A.S.S.R. Izv. Kazan.fil. AN SSSR. Ser.khim.nauk no.6:116-122 '61. (MIRA 16:5) (Tatar A.S.S.R.--Petroleum) (Hydrocarbons) (Picric acid--Spectra)

L 10830-63 EPR/EPF(c)/EWP(j)/EWT(m)/BDS--AFFTC/ASD--Pr-L/Ps-L/Pc-L--RM/WW ACCESSION NR: AP3000755 S/0020/63/150/003/0608/0611

AUTHOR: Teytel baum, B. Ya.; Yagfarova, T. A.; Anoshina, N. P.; Naumov, V. A.

TITLE: Multiple investigation of the crystallization of polychloroprene rubber - Nairit

SOURCE: AN SSSR. Doklady, v. 150, no. 3, 1963, 608-611

TOPIC TAGS: crystallization, polychloroprene rubber, elasticity, crystallinity

ABSTRACT: The crystallization process in Nairit was studied by thermo-mechanical. thermographic and X-ray methods. The deformation of freshly-prepared polymer faded out (indicating crystallization) in 15 minutes at 0°, in 2 hours at room temperature. Thermomechanical curves showed maximum crystallinity for unheated samples and maximum elasticity on heating to 50° and holding at room temperature for one hour, elasticity decreasing with prolonged holding. The plateau of the peaks in a thermogram is dependent on degree of crystallinity. Thermomechanical curves can be used to evaluate degree of crystallinity. Supplementary X-ray analyses are necessary to determine absolute percentage of crystallization. The kinetics of Nairit (and other elastomers) crystallization can be studied by a combination of these methods. Orig. art. has: 4 figures.

Card 1/2/ ASSOCIATION: Institute of Organic Chemistry of Academy of Sci.

TEYTEL BAUM, B.Ya.; GUBANOV, E.F.; NAUMOV, V.A.

Crystallization of natural rubber. Dokl.AN SSSR 145 no.5:1077-1080 '62. (MIRA 15:8)

1. Khimicheskiy institut im. A.Ye.Arbuzova AN SSSR i Institut organicheskoy khimii AN SSSR. Predstavleno akademikom B.A. Arbuzovym.

(Rubber) (Crystallization)

TEYTEL BAUM, B.Ya.

Thermomechanical curves of polymers under constant load. Vysokom. (MIRA 15:7) soed. 4 no.5:655-661 My '62.

1. Khimicheskiy institut imeni A.Ye.Arbuzova Kazanskogo filiala AN SSSR. (Polymers—Testing)

1. 9300

B/020/62/145/005/015/020 B106/B144

AUTHORB :

Teytel baum, B. Ya., Gubanov, E. F., and Naumov, V. A.

TITLE:

Crystallization of natural rubber

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 145, no. 5, 1962, 1077-1080

TEXT: The crystallization in natural rubber was studied by thermomechanical and X-ray diffraction analyses. In the range from -80 to 60°C and under alternating loads of 0.64 and 3.2 kg/om, a sharp increase of deformability occurs at 0°C, due to fusion of the crystallites. From-35 to 0°C, the deformability is smaller owing to an additional crystallization and solidification of rubber near optimum crystallization temperature (-25°C). When rubber is cooled from room temperature to below vitrification temperature within 1 hr, practically no crystallites are formed except at the optimum crystallization temperature, since crystallization takes longer at other temperatures; it can be completely prevented by quickly freezing the rubber with liquid nitrogen. The melting point of the crystallites depends on their temperature of formation. In "tanned" rubber melting at ~45°C, the deformability in the highly elastic state is much lower than in rubbers Card 1/3

S/020/62/145/005/015/020 B106/B144

Crystallization of natural rubber

crystallizing at low temperatures, but rises suddenly at 45 - 48°C.

Heating the "tanned" rubber to >50°C destroys the crystallinity. Such samples do not show any jump in the deformability at 0° or 45°C, but their deformability on transition to the highly elastic state (-60°C) is much higher than in the initial rubber. When a rubber heated previously to higher than in the initial rubber. When a rubber heated previously to higher than in the initial rubber. When a rubber heated previously to higher than in the initial rubber is being cooled to low temperatures, crystallication occurs without the temperature needing to be kept constant for long ation occurs without the temperature needing to be kept constant for long. The crystalline phase, formed at room temperature, therefore initiates the crystallization at low temperatures. X-ray analyses showed that the crystallization at low temperatures. X-ray analyses showed that the crystalline phases formed at different temperatures were independent of their melting points. This is explained by the fact that at -25°C the crystallites are formed so quickly that no equilibrium is attained. The low melting point may be due to strong internal stresses and/or to the low melting point may be due to strong internal stresses and/or to the small size of quickly formed crystallites. The results of the thermomechance all and the X-ray analyses are complementary and this combination may be useful for studies of other polymers also. There are 4 figures. The most important English-language references are: C. W. Bunn, Proc. Roy. Soc., important English-language references are: C. W. Bunn, Proc. Roy. Soc., important English-language references are: C. W. Bunn, Proc. Roy. Soc., Card 2/3

Orystallization of natural rubber

\$/020/62/145/005/015/020 B106/B144

ASSOCTATION:

Khimicheskiy institut im. A. Ye. Arbuzova Akademii nauk SSSR (Chemical Institute imeni A. Ye. Arbuzov of the Academy of Sciences USSR). Institut organicheskoy khimii Akademii nauk SSSR (Institute of Organic Chemistry of the Academy of

Sciences USSR)

PRESENTED:

April 9, 1962, by B. A. Arbuzov, Academician

SUDMITTED:

April 5, 1962

Card 3/3

B/138/62/000/008/002/007

15,9200

AUTHORS:

TITLE:

Teytal baum, B. Ya., Dianov, M. P., Beregovskaya, M. G., Yagfarova,

T. A

Thermomechanical curves of several rubbers

PERIODICAL: Kauchuk i rezina, no. 8, 1962, 3 - 6

TEXT: The thermomechanical curves of several rubbers under various loads, within a temperature interval from -120 to $+450^{\circ}$ C, were recorded, using an automatic recorder. The method of continuous weight application was used. The resultant curves reflected the characteristic qualities of the investigated rubbers, leading to the derivation of certain quantitative units: T_g - vitrification temperature, T_f - fluidity temperature; and a relative evaluation of the degree of deformation of the material at any given temperature. The curves were plotted over temperature - deformation coordinates by a recorder designed at the Kazan' branch of the Academy of Sciences of the USSR. The thermomechanical curves produced are shown in figures. The CKI (SKD) curve is thought to be influenced by the presence of a crystalline phase. The figures obtained for this rubber under a

Card 1/2

Thermomechanical curves of several rubbers

S/138/62/000/008/002/007 A051/A101

32 kgf/cm² load were: $T_g = -115^{\circ}C$, h_g (curve elevation) = 4.5%, $T_f = -22^{\circ}C$, T_k (temperature of penetration) = -7°C. Under a 3.2 kgf/cm² load $T_f = -16^{\circ}C$, $T_k = -10^{\circ}C$. There is 1 table, and one set of graphs.

Card 2/2 .

TEYTEL'BAUM, B.Ya.; YAGFAROVA, T.A.; DIAMOV, M.P.; GUBANOV, E.F.

Thermal transformations of some rubbers studied by the method of thermomechanical curves. Dokl. AN SSSR 140 no.5:1132-1135 0 161. (MIRA 15:2)

1. Khimicheskiy institut im. A.Ye. Arbuzova i Institut organicheskoy khimii Kazanskogo filiala AN SSSR. Predstavleno akademikom B.A.Arbuzovym.

(Rubber—Thermal properties)

CIA-RDP86-00513R001755520007-9 "APPROVED FOR RELEASE: 03/14/2001 5/190/62/004/005/005/026 37429 B139/B138 15. 8500 (2209,2409) Thermo-mechanical curves for polymers under continuous load Teytel baum, B. Ya. Vysokomolekulyarnyye soyedineniya, v. 4, no. 5, 1962, 655-661 AUTHOR: TEXT: Two methods of establishing temperature-deformation curves of nonlymere are compared namely (A) that of V. A. Vargin (nariodically TEAT: Two methods of establishing temperature-deformation curves of polymers are compared, namely (A) that of V. A. Kargin (periodically loading and unloading the arecimen at each stage of heating) and (n) polymers are compared, namely (A) that of V. A. Kargin (periodically that loading and unloading the specimen at each stage of heating) and (B) that loading and unloading the specimen at each stage of heating) and with riging of Ye. T. Regirer and M. S. Kalantarova (continuous load with riging) TITLE: loading and unloading the specimen at each stage of neating) and (B) of Ye. I. Regirer, and M. S. Kalantarova (continuous load with rising temperature). In both methods the plateaux of the curves character PERIODICAL: of ie. 1. Regirer, and M. S. Kalantarova (continuous load with rising temperature). In both methods the plateaux of the curves characterize the highly electic rooms, with the rise that characterizes placetic rooms. temperature). In note methods the plateaux of the curves characterizes plastic flow the highly elastic range, with the rise that characterizes plastic flow beginning at yield noint of the indenter the fighty exacts range, with the rise that characterizes practic to indenter beginning at yield point Tr. corresponds to point TK at which the rising curve intersects the line of 100% deformation. With method B, however, the plateau does not indicate that deformability is unchanged, but rather, that an increase in that deformability is unchanged, but rather, that an increase in deformability is prevented by the greater rigidity of the polymer. (m /m /m) deformability is prevented by the greater rigidity of the polymer. On the development of a space lattice, in the high-elasticity range ($T_c < T_o < T_T$) card 1/3

S/190/62/004/005/005/026 B139/B138

Thermo-mechanical curves for ...

(where T_c is brittle point and T_o the temperature at which space lattices form), and in the viscous range $(T_{o} > T_{T})$, method B produces plateaux while method A shows a reduction in deformability to nearly zero. The rise in both curves at $T_{\underline{T}}$ corresponds to transition to the viscous state, not of the original polymer, but of the destructible product of their crosslinking. The B-type curve reflects thickness variations which are not only due to externally applied pressure but also to "post-polymerization", destruction processes with gas liberation and the effects of thermal expansion. B-type curves contain more information, but since, however, different causes may produce apparently similar curves their correct interpretation calls for control operations such as varying the load, rate of heating and nature of the gaseous medium, interrupting the experiment at a certain stage and repeating it later after the specimen has cooled, and comparison with the results of independent studies. This is similar to thermographic analysis which first became practicable through the development: of automatic recording methods for heating curves, by Le Châtelier, N. S. Kurnekov, and Saladen. There are 4 figures.

Card 2/3

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001755520007-9"

Thermo-mechanical curves for ...

S/190/62/004/005/005/026 B139/B138

ASSOCIATION:

Khimicheskiy institut im. A. Ye. Arbuzova Kazanskogo filiala AN SSSR (Institute of Chemistry imeni A. Ye. Arbuzov

of the Kazan' Branch of AS USSR)

SUBMITTED:

March 17, 1961

Card 3/3

29123 s/020/61/140/005/020/022 B101/B110

11.2211

Teytel'baum, B. Ya., Yagfarova, T. A., Dianov, M. P., and

AUTHORS: Gubanov, E. F.

Study of thermal transformations of some rubbers by means of thermomechanical curves TITLE:

Akademiya nauk SSSR. Doklady, v. 140, no. 5, 1961, 1132-1135 PERIODICAL:

TEXT: The authors attempted the continuous recording of thermomechanical curves for rubbers by an improved method (B. Ya. Teytel baum, Peredovoy nauchno-tekhnich i proizv. opyt, Tsentr inst. tekhn.-ek. inf., ser. 32, 1961, no.4/2). Recording was performed automatically under constant load and with uniform temperature increase in nitrogen atmosphere. An 3TT-09 (EPP-09) electronic potentiometer was used as recorder. The recording chart was advanced according to the deformation. Rubber specimens (4 mm diameter, 2 mm height) were tested at -120 to +450°C. The rate of heating

was 2 deg/min, the load 3.2 kg/cm². Deformation is indicated in relative percents. The following was found: (1) For all natural rubbers (smoked sheets), a "step" was observed on the curve corresponding to the melting

Card 1/A3

29123 \$/020/61/140/005/020/022 B101/B110

Study of thermal transformations ...

of the crystalline phase at $\sim 0^{\circ}$ C. If the sample is controlled by thermostat at the optimum crystallization temperature (-25°C), the step already appears for slight deformation. This confirms its relationship with the crystalline phase. Such an affect was not observed in any synthetic rubber. (2) Butadiene rubbers CK 5(SKB), CKB(SKV), CK 5M(SKBM) and piperylene rubber $CK\Pi(SKP)$ synthesized by alkaline catalysts showed characteristic vitrification temperatures. The thermomechanical curves ascended immediately after exceeding the vitrification temperature. Thus, plastic deformation immediately occurs in these rubbers besides elastic deformation. (3) Butadiene rubber of the type CKJU(SKLD) synthesized by a lithium catalyst and having low plasticity behaved differently. Fig. 3 shows thermomechanical curves for SKLD rubbers of high and low plasticity. Cross linking was found to occur by heating to 250°C. If SKLD rubbers of high plasticity were heated to 250°C, they showed the same thermomechanical curve as rubbers of low plasticity. Other butadiene rubbers such as SKB, (KD(SKD) (synthesized by a complex catalyst) behaved similarly. In natural rubbers, isoprene rubbers CKN SKI) and piperylene rubber SKP, no cross linking was attained by heating to 250°C. Therefore, butadiene rubbers may be easily distinguished from other rubbers by heating them to 250°3 and Card 2/A2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001755520007-9"

29123 S/020/61/140/005/020/022

B101/B110

Study of thermal transformations...

recording the thermomechanical curve. Cross linking occurs at 250° C in butadiene rubbers, while destruction takes place in pentadiene rubbers. The authors thank M. G. Beregovskaya for the supply of the specimens, and for a discussion. A paper by A. A. Tager et al. (Khim. prom. no. 4, 209 (1955)) is mentioned. There are 4 figures and 7 Soviet references.

ASSOCIATION:

Khimicheskiy institut im. A. Ye. Arbuzova (Chemical Institute imeni A. Ye. Arbuzov); Institut organicheskoy khimii Kazanskogo filiala Akademii nauk SSSR (Institute of Organic Chemistry of the Kazan' Branch, Academy of Sciences USSR)

PRESENTED:

May 19, 1961 by B. A. Arbuzov, Academician

SUBMITTED:

April 13, 1961

Card 3/43

(MIRA 14:4)

TEYTEL'BAUM, B.Ya.; DIANOV, M.P.

Methods of recording the thermomechanical curves of polymers.

l. Khimicheskiy institut Kazanskogo filiala AN SSSR. (Polymers)

Vysokom.soed. 3 no.4:594-601 Ap 161.

15.8500

1372,2209

21134 s/190/61/c03/004/009/014 B101/B207

11.2314

AUTHORS:

Teytel baum, B. Ya., Dianov, M. P.

TITLE:

The method of recording the thermomechanical curves of poly-

mers

PERIODICAL:

Vysokomolekulyarnyye soyedineniya, v. 3, no. 4, 1961, 594-601

TEXT: This paper reports on the design of an apparatus for the continuous recording of thermomechanical curves (TMC) and on some experiments conducted. Fig. 1 shows a schematical drawing of the apparatus. O is the sample contained in a vessel of 4 mm inner diameter and 2 mm height. It is part of the heater 5 (aluminum). S is cooled with liquid air before the beginning of the experiment by means of the Dewar vessel A, subsequently heated at constant temperature rise. The linear increasing voltage of AJH, the thermocouple TY and the electronic relay P_2 serve for this purpose. P_2 switches in the heating current as soon as the emf of TY has reached the voltage of AJH. The sample is loaded with the weight Γ of the stamp $\mathbb M$, the weight of which is equalized by the scale beam K and counterweight. The contact needle M is fixed at the end of K. The vessel with the samples is

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Card 1/7

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21134 8/190/61/003/004/009/014 B101/B207

The method ...

fixed at the cross beam T by means of rods. The micrometer screw M forms part of T and is moved by means of a CA-2 (SD-2) synchronous engine. (Insulators are between K and U, as well as between T and M). W separates from M when the sample is deformed (falling of the stamp $\overline{\Pi}$). Subsequently, the relay P1 switches in the engine (a) of the record chart of the AMT-09 (EPP-09) recorder and SD-2, which are synchronous until contact is re-established between N and M. The maximum recording rate of deformation depends on the rpm. of the Warren engine. The temperature of the sample is measured with the thermocouple TN, which is connected to the input (b) of EPP-09. The cold junctions XC are kept at 20°C by means of the thermostat. The potentiometer TC permits the recording of both positive and negative temperatures. At (c), N2 is blown through. A special device was designed to bring various diagrams to the same scale by means of projecting the record chart located on an inclined glass plate onto a horizontal table. Fig. 3 shows the TMC of polyvinyl chloride at different stress. At 100, 125, and 150°C, the diagrams of Fig. 4 were obtained herefrom. Linear function between deformation and stress could be observed only in highly elastic state (up to 100°C). At higher temperatures, a deviation from linearity was observed owing to plastic deformation. Fig. 5 shows the dependence of the vitrifica-Card 2/7

2113l₁ S/190/61/003/004/009/014 B101/B207

The method ...

tion temperature T_V and the softening point T_S on the stress. The real T_S was determined by recording T_S at various small stress by extrapolation with respect to zero stress. Similar investigations were also carried out on polymethyl methacrylate and the copolymer from the allyl dichloro vinyl ester of phenyl phosphinic acid and 3% methyl methacrylate provided by N. I. Rizpolozhonskiy and A. A. Muslinkin. The optimum stress was found to depend on the kind of the polymer to be investigated. At high stress, T_V can be accurately determined, while the determination of T_S requires a small load. Furthermore, the course of TCC was found to be highly dependent on the preparation of the sample. Fig. 8 shows this for polymethyl methacrylate V. A. Kargin and V. L. Tsetlin are mentioned. There are 9 figures and 8 Soviet-bloc references.

ASSOCIATION: Khimicheskiy institut Kazanskogo filiala AN SSSR (Chemical

Institute of Kazan' Branch, AS USSR)

SUBMITTED:

July 14, 1960

Card 3/7

Photometric picric acid method for the determination of naphthalene in its mixtures with phenol. Zhur.anal.khim. 15 no.1:119-120 J-F '60. (MIRA 13:5)

1. Chemical Institute of Kazan Branch, Academy of Sciences, U.S.S.R., Kazan. (Naphthalene) (Phenol)

CIA-RDP86-00513R001755520007-9 "APPROVED FOR RELEASE: 03/14/2001 CHECKE AND HOLD AND REPORTED TO THE SECOND S

5 (4) AUTHORS: Teytel baum, B. Ya., Dianov, M. P.

SOV/20-128-1-28/58

TITLE:

Spectrophotometric Investigation of Picrates of Aromatic

Hydrocarbons in Solution

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 1, pp 106-109 (USSR)

ABSTRACT:

In the present paper the authors attempted to solve the problem as to whether aromatic hydrocarbons may be determined on the basis of light absorption of their picrates. As a solvent 1,2-dichloro ethane was used which solves picric acid and hydrocarbons as well as picrates. In a relatively wide spectral range the absorption curves were plotted and for a series of solutions the molar extinction coefficients & were computed (Fig 1). Absorption spectra of the solutions investigated may be divided into 3 ranges: In the shortwave range (222-300 mm) absorption bands characteristic of naphthalene hydrocarbons occur. In the medium range there is the absorption maximum of picric acid (340 m/m). For differently concentrated solutions and solutions with heterogeneous hydrocarbons the extinction curves are equal. The long-wave range is characterized by the absorption of picrates. Besides naphthalene and its methyl-substituted derivatives, also individual non-condensated aromatic

Card 1/3

Spectrophotometric Investigation of Picrates of Aromatic Hydrocarbons in Solution

SOY/20-128-1-28/58

hydrocarbons were investigated. With all solutions investigated absorption edges are almost parallel (Table 1) in the visible part of the spectrum. The investigation was carried out on the spectrophotometer SF-4 at room temperature. The following investigation results were found: By formation of picrates of aromatic hydrocarbons, the absorption edge of picric acid is shifted towards the longwave range. The amount of shifting depends on the nature of the hydrocarbon and on the concentration of the solution. With an increase in the number of alkyl groups in the hydrocarbon molecule, the absorption edge is shifted correspondingly. The shifting of the absorption edges is hardly influenced by a complication in the structure of alkyl groups, or by a variation of their position in the ring. This shifting may also serve at a certain optical density - just as the absorption quantity on a certain wave length - for the determination of aromatic hydrocarbons by the spectrophotometric and colorimetric method. The authors thank L. A. Mukhamedova and Ye. A. Robinzon for providing the preparations. There are 2 figures. 1 table, and 7 references, 5 of which are Soviet.

Card 2/3

Spectrophotometric Investigation of Picrates of Aromatic Hydrocarbons in Solution

SOV/20-128-1-28/58

ASSOCIATION:

Khimicheskiy institut Kazanskogo filiala Akademii nauk SSSR (Institute of Chemistry of the Kazan' Branch of the Academy of Sciences, USSR)

PRESENTED:

April 27, 1959, by B. A. Arbuzov, Academician

SUBMITTED:

April 20, 1959

Card 3/3

5(4) SOV/20-125-2-27/64 AUTHOR: Teytel'baum, B. Ya. On Isotherms of the Properties of Binary Liquid Systems TITLE: of Which One Component Is Isomerized by the Influence of the Other (Ob izotermakh svoystv dvoynykh zhidkikh sistem, odin iz komponentov kotorykh izomerizuyetsya pod vliyaniyem drugogo) Doklady Akademii nauk SSSE, 1959, Vol 125, Nr 2, pp 337-340 PERTODICAL: (USSR) The author has discussed the problem mentioned in the title ABSTRACT: from a general point of view, and derived types of isotherms for systems of this kind. In addition to this he has shown the peculiarities and differences in these isotherms as compared with those which are related to systems with formation of additive compounds. In the investigation of the interaction between the components in the liquid phase and in the binary phase the formation of additive compounds is usually assumed to occur on the pattern mA + nB = A_B_. However, the chemical interaction of the components is by no means fully explained by this case. It may occur on the Card 1/4

On Isotherms of the Properties of Binary Liquid SOV/20-125-2-27/64 Systems of Which One Component Is Isomerized by the Influence of the Other

pattern of a double exchange. In this process 4 types of molecules are in equilibrium in the liquid phase: AR + BR' AR' + BR. The investigation of the isotherm shape is far more complicated with regard to this reaction type than it is with regard to the formation of additive compounds. In respect of complex molecules (hypothetically designated by ACR), a molecule regrouping ACR + BR AR'C + BR may occur. The special case of R; = R is of particular interest. In this case, an isomerization ACR - ARC takes place, in which the 2nd component does not formally participate, but in which it actually plays the part of a catalyst. In the absence of this 2nd component, isomerization will not occur. Furthermore, 2 cases are discussed: 1) The intensity of the property of the isomerizing component is higher than that of the other one (BR). In this case there are two possibilities: a) The intensity of the properties ARC > ACR (Fig 1, patterns 1a and a'); b) ARC < ACR. Case 2) The intensity of the property of the isomerizing component is lower than that of the other one (BR). Here, too, there are two possibilitiess a) ARC > ACR

on reasonable control of the control

Card 2/4

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001755520007-9"

On Isotherms of the Properties of Binary Liquid Systems of Which One Component Is Isomerized by the Influence of the Other 50V/20-125-2-27/64

(Fig 1, pattern 2a); b) ARO (ACR. From the above-mentioned facts we arrive at the conclusion that the isotherms of such systems as contain a component which is isomerized by the action of the 2nd component may possess the same geometrical properties as those of systems with the formation of additive compounds: curvatura, estrana values, deflection points. By way of conclusion 4 characteristics of systems with isomerization are set forth. From them it can be seen that systems have to be studied at different temperatures and at different reaction durations if the type of interaction concerned is to be differentiated from the ordinary formation of additive compounds. One instance of isomerization is the regrouping, discovered by A. Ye. Arbuzov (Ref 4), of phosphoric acid esters into esters of the alkylphosphinic acids by the action of halogen alkyls. There are ! figure and 5 Soviet references.

ASSOCIATION: Card 3/4 Khimicheskiy institut Kazanskogo filiala Akademii nauk SSSR (Chemical Institute of the Kazan Branch of the Academy of

On Isotherms of the Properties of Binary Liquid Systems of Which One Component Is Isomerized by the Influence of the Other SOV/20-125-2-27/64

Sciences, USSR)

PRESENTED:

December 8, 1958, by B. A. Arbuzov, Academician

SUBMITTED:

December 2, 1958

Card 4/4

TEYTEL BAUM. B.Ys.: OSIPOV, O.A.

Study of the surface layer of fluid systems. Part 7. Surface stra-

tification and volumetric properties of solutions of binary systems.

Koll.zhur.17 no.1:57-62 Ja-F '55. (MIRA 8:3)

1. Khimicheskiy institut im. A Ye.Arbuzova Kazanskogo filiala AN SSSR (for Teytel'baum). 2. Rostovskiy universitet im. V.M.Molotova (for Osipov).

(Surface chemistry) (Systems (Chemistry))

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001755520007-9"

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5.5300

77763 80V/75-15-1-25/25

AUTHORS:

Dianov, M. P., Teytel baum, B. Ya.

TITLE:

Brief Communications. A Photometric Picrate Method of Determination of Maphthalene in Mixtures With Phenol

PERIODICAL:

Zhurnal analiticheskoy khimli, 1960, Vol 15, Nr 1, pp

119-120 (USSR)

ABSTRACT:

This simple and accurate method is based on the difference of the bathochromic shifts of naphthalene and phenol picrates. Quartz optics are not necessary (FEK-M spectrophotometer was used). O.1 Dichloroethane solutions of picric acid and naphthalene are used. Picrates of phenol absorb at about 412-425 m μ , and those of naphthalenes at 455 m μ and up. The concentrations are determined from calibration curves. The accuracy of this method is up to 1%. There is a figure; I table; and 3 Soviet references.

ASSOCIATION:

Chemical Institute of the Kazan' Branch of the Academy

Card 1/2

Brief Communications. A Photometric Picrate Method of Determination of Naphthalene in Mixtures With Phenol

77763 \$0**V**/75~15~1~25/29

of Sciences, USSR, Kazan' (Khimicheskiy institut Kazanskogo filiala AN SSSR, Kazan')

SUBMITTED:

March 9, 1959

Card 2/2

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AUTHOR: Teytel baum, B. Ya.; Gubanov, E. F.; Adamovich, E. P.; Dianov, M. P.; Makarova, N. N.

TITLE: Determination of the molecular weight of linear polymers by the thermomechanical method 28 B

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 2, 1965, 299-304

TOPIC TAGS: thermomechanical method, rubber, molecular weight

ABSTRACT: A new rapid and accurate method has been proposed for determining the molecular weight of amorphous linear polymers, based on thermomechanical curves. The method is based on the correlation of the temperature (T_k) of the completion of penetration of an indenter into the specimen with the intrinsic viscosity (n) of solutions of the specimen, and, hence, its molecular weight ($\mathfrak M$). Once a T_k versus M calibration curve has been plotted, the molecular weight determination is reduced to the plotting of a thermomechanical curve to find ζ and reading M from the calibration curve. In contrast to existing methods, the new method does not require the determination of the glass-transition flow and temperatures. It is applicable to polymeric homologs which do not exhibit high elastic properties. The correlation

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ACCESSION NR: AP5005598

between T, and M or n was shown experimentally for natural, isoprene, chloroprene (KR-A-type Nairit) and SKN-40 nitrile rubbers, polyisobutylene, and liquid thiocol. The thermomechanical measurement conditions which will ensure a reliable correlation were determined. Orig. art. has: 7 figures. [SM]

ASSOCIATION: Institut organicheskoy khimii AN SSSR, Kazan (Institute of Organic Chemistry, AN SSSR); Khimicheskiy institut im. A. Ye. Arbuzova AN SSSR (Chemical

Institute, AN SSSR)

SUBMITTED: 23Apr64

ENCL: 00

SUB CODE: OC, NP

NO REF SOV: 006

OTHER: 002

ATD PRESS:

3191

KHRUSHCHOVA, V.A.; TEYTEL BAUM, F.M.

Significance of the serological method in the laboratory diagnosis of diphtheria. Vop. okh. mat. i det. 8 no.7:22-25 Jl '63. (MIRA 17:2)

1. Iz Vasileostrovskoy detskoy infektsionnoy bulnitsy (glavnyy vrach - zasluzhennyy vrach RSFSR N.A. Nikitine), Leningrad.

KHRUSHCHEVA, V.A., kandidat meditsinskikh nauk; TEYTEL BAUM, F.M.; MARKOVA, A.A., kandidat meditsinskikh nauk

Serological diagnosis of diphtheria. Vop.okh.mat. i det. 1 no.4: 13-17 J1-Ag '56. (MLRA 9:9)

1. Is Gosudaratvennogo naudhno-issledovatel skogo pediatricheskogo instituta (dir. - prof. A.L.Libov) i detskoyinfektsionnoy bol'nitsy Sverdlovskogo rayona Leningrada (glavnyy vrach N.A.Nikitina)

(DIPHTHERIA--DIAGNOSIS)

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KHRUSHCHOVA, V.A., kand.med.nauk; TEYTEL BAUM, F.M.

Use of the method of phage typing of staphylococci in the study of staphylococcal diseases in children. Vop. okh. mat. i det. 6 no.7: 52-57 Jl '61. (MIRA 14:8)

l. Iz detskoy infektsionnoy bol'nitsy Sverdlovskogo rayona Leningrada (glavnyy vrach - zasluzhennyy vrach RSFSR N.A.Nikitina).

(STAPHYLOCOCCAL DISEASE) (BACTERIOPHAGE)

KRUSHCHOVA, V.A.; TEYTEL'BAUM, F.M.; MAYANTS, Sh.G.

Determination of the toxigenicity of staphylogocol by precipitation in agar. Zhur. mikrobisl., epid. 1 immun. 40 no.4s.42-46 Ap 163. (NIRA 17:5)

1. Iz Detekoy infektsionnoy bol'nitey Sverdlovskogo rayona Leningrada.

Hame: TETTEL BAUM, Grigoriy Hisonovich

Dissertation: Disturbance of hemodynamics in some cases of infectious diseases

Degree: Doc Med Sci

Affiliation: Inot indicated

Defense Date, Plsce: 7 Jul 55, Council of Military Med Acad imeni Kirov

Certification Date: 7 Jul 56

Source: BMV0 5/57

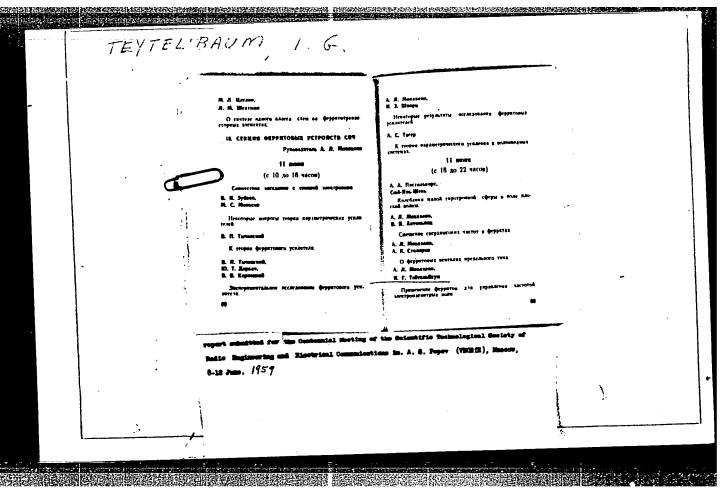
TEYTEL BAUM, Grigoriy Nisonovich; LILENKO, S.I., red.

[Hemodynamic disorders in some infectious diseases] Marusheniia gemodinamiki pri nekotorykh infektsionrykh zabolevaniiakh. Leningrad, Meditsina, 1964. 187 p. (MIdA 17:8)

TEYTEL BAUM, I.B. (Teningrad, Mozhayskaya ul., d.15, kv.24)

Complications following intra-arterial blood transfusion. Vest.
khir. 90 no.5:137-138 b 163 (MIRA 17:5)

l. Iz khirurgisheskogo otdeleniya (zav. - kand.med. nauk A.f Kalenda ev) fushkinskoy bolinitsy imeni Semashko (glavayy vrach - Ye.D. Polishchuk-Kulikova).



36839 s/137/62/000/004/164/201 A154/A101

1.2300 AUTHORS:

Teytel baum, L.N.; Chumadin, I.T.

TITLE:

Automatic haif-submerged arc welding of aluminum equipment

PERIODICAL:

Referativnyy zhurnal, Metallurgiya, no. 4, 1962, 23, abstract 4E115 ("Montazhn. i spetsializor. raboty v str-ve", 1961, no. 11, 3 - 7)

The Promtekhmontazh and Orgproyekttekhmontazh trusts have successfully mastered and introduced automatic half-submerged arc welding (svarka poluotkrytoy dugoy po sloyuflyusa) of Al containers. These containers are made of Alyk (Aluk) aluminum, are 2.3 m in diameter and 10.5 m long, and have 8 mm thick walls and two spherical bottoms of 10 mm thick sheet. 2 mm AA1 (AD1) electrode wire and AH-A1 (AN-A1) flux were used for the welding. The metal and welding wire were prepared for welding by normal means. The optimum flux layer - 8 to 9 mm was found empirically. Welding was done with one electrode and two wires (by the split electrode). ATC -17MY (TS-17MU) tractor was used for annular welds and an AANF-500 (ADPG-500) tractor for the longitudinal welds of the shells and the butt welds of the bottoms; the tractors were adapted for half-submerged arc welding. A special production line was organized for making the elements, and assembling

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Automatic half-submerged arc welding of

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and welding the quipment on an assembly site. For welding the annular welds dispensable (neostayushchiyesya) backing rings were used.

V. Klyuchnikova

[Abstracter's note: Complete translation]

Card 2/2

TEYTEL'BAUM, L.N., inzh.; CHUMADIN, I.T., inzh.

Automatic welding of aluminum equipment with a semi-submerged arc along a layer of flux. Mont. i spets. rab. v stroi. 23 no.11:3-7 N '61. (MIRA 16:7)

1. Gosudarstvennyy soyuznyy trest po tekhnicheskim montazhnym rabotam Glavtekhmontazha Ministerstva stroitel'stva SSSR.

(Aluminum—Welding)

AFANAS'YEVA, V.M.; SOKOLOVA-FONOMAREVA, O.D., prof.; ZVER'KOVA, F.A.;
SPERANSKIY, G.N., prof.; VEL'TISHCHEV, Yu.Ye.; TABOLIN, V.A.;
TEYTEL'MAN, M.A.

Book reviews. Pediatrita 42 no.1:88-93 Ja'63. (MIHA 16:10)

(PEDIATRICS)

MARKOVICH, I.M., doktor tekhn.nauk; TEYTEL'BAUM, V.N.

Method of efficient distribution of active power in a conselidated electric power system. Elektrichestvo no.1:10-11 Ja '62.

(MIRA 14:12)

1. Energeticheskiy institut imeni Krzhizhanovskogo.
(Interconnected electric utility systems)
(Electric power distribution)

CIA-RDP86-00513R001755520007-9 "APPROVED FOR RELEASE: 03/14/2001

SOV/20-121-5-11/50 Teytel baum, V.N. AUTHOR: (Sravneniye

Comparison of Numbers in the Czech Number System TITLE: chisel v Cheshskoy sisteme schisleniya)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 121, Nr 5, pp 807-810 (USSR)

Let 2 = $p_1 < p_2 < \cdots < p_n$ be positive prime numbers. The Czech ABSTRACT:

system is a number system in which a number is represented by the totality of its smallest non-negative remainders mod p1,p2, ...

..., pn. Under restriction to non-negative integers smaller than the product p1p2 ... pn , the author describes a method for the

comparison of the magnitude of two numbers given in the Czech The method is valid if p₁ = 2 only. Let M=p₁p₂···p_n·

Numbers of the first half are numbers a for which $0 \le a < \frac{M}{2}$, for

the numbers of the second half holds $\frac{M}{2} \le a < M$.

Theorem: Let a and b belong to one half. Necessary and sufficient that a >b, is that [a-b] belongs to the first half. Here [a-b] is an especially defined so-called table difference.

The above theorem permits to reduce the comparison of two numbers to the answering of the question, to which half there belongs a

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Comparison of Numbers in the Szeck Number System

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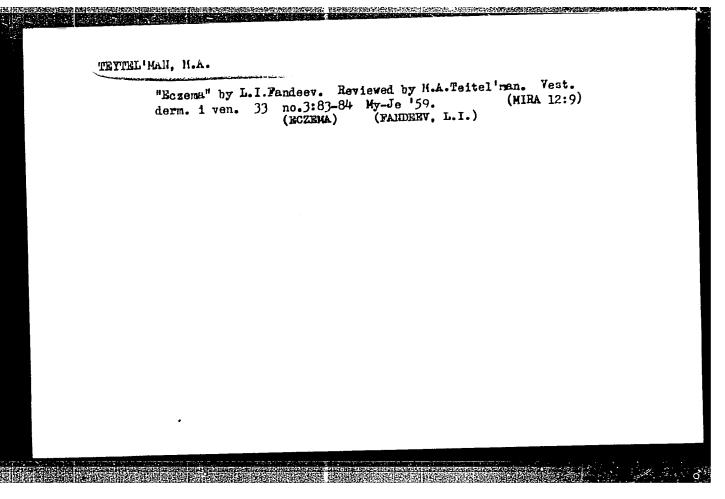
given number. The method demands 1+6(n-2) steps maximally. There is 1 Czecho-Slovakian reference.

PRESENTED: April 10, 1958, by M.V. Keldysh, Academician

SUBMITTED: April 8, 1958

Card 2/2

"Concern of the Communist Party and the Soviet government for the health of workers" by V.P.Barilenko. Reviewed by M.A.Teitel'man. Sov.zdrav. 16 no.3:60-61 Mr '57. (MERA 10:6) (PUBLIC HNAUTH) (RARILEMEO, V.P.)



THYTHE THAT, H. A.: "The condition of the liver in the such stages of cyplitic." Fublished y "Something Kulan". Enten State of cyplitic." Research of Recent State Nestical Inst Search of Cartinate in Medical Science.).

So: Enizhaaya letonis', No 23, 1-55

TRYTEL'HAN, M.A., IKONNIKOV, N.N.

"Sexual disorders in men; etiology, clinical aspects, and treatment"
by I.M. Porudominskii. Reviewed by M.A. Teitel'man, N.N. Ikonnikov.
by I.M. Porudominskii. 32 no.4:83-84 Jl-4g '58

(MIRA 11:10)

(IMPOTENCE)

(PORUDOMUNSKII. 'I.M.)

"Courses and achievements in controlling dermatomycosis in Soviet

"Courses and achievements in controlling dermatomycosis in Soviet

Moldavia" by M.V. Borzov. Reviewed by M.A. Teil'man. Vest.

Moldavia" 1 ven. 32 no.5177-78 S.-0 '58

(MOLDAVIA-DERMATOMYCOSIS)

(BORZOV, M.V.)

MIRA 11:11)

TEYTEL'MAN, M.A.; RYBAKOVA, L.V.

Treatment of acute pyodermas with erythromycin. Sov. med. 25 no.10: 136-137 0 '61. (MIRA 15:1)

SHEEDER PROPERTY DESCRIPTION OF THE PROPERTY O

1. Iz polikliniki imeni 15-y godovshchiny Oktyabrya (glavnyy vrach I.S. Khoroshev), Sverdlovsk. (SKIN_DISEASES) (ERYTHROMYCIN)

TETTEL MAN, M.A., kand.med.nauk (Sverdlovsk)

Sanitation of minor occupational skin wounds. Med. sestra 21
(MIRA 15:3)
no.1:39-41 Ja 162.
(SKIN-WOUNDS AND INJURIES)

TETTEL BAUM, M.M., polkovnik med.sluzhby, kand.med.nauk; SHERSHEVER, S.M., polkovnik meditsinskoy sluzhby, kand.med.nauk; KRYLOVA, L.P.

Symptomatology of gastric and duodenal ulcer in young subjects.

Voen.-med.zhur. no.2:77-79 F 160. (MIRA 13:5)

(PRPTIC ULCER)

TEYTEL BAUM, M.Z. (Saratov, ul. Gogolya, d.76, kv.3)

在的工作。

Some problems of primary invalidity following trauman of the Some problems of primary invalidity following trauman of the Sometor apparatus; based on materials of the Saratov Medical locomotor apparatus; based on materials of the Saratov Medical Commission on Work Ability. Ortop., travm. i protez. 26 [MIRA 18:5] no.2:46-50 F 165.

1. Iz TSentral*nogo instituta ekspertizy trudosposobnosti i organizatsii truda invalidov (dir. - prof. D.I. Gritakevich) i Saratovskogo instituta travmatologii i ortopedii (dir. - dotsent Ya. N. Rodia).

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001755520007-9"

TREPENENKOV, I.I., kand.tekhn.nauk; TEYTTI RAUM, Z.I., inzh.

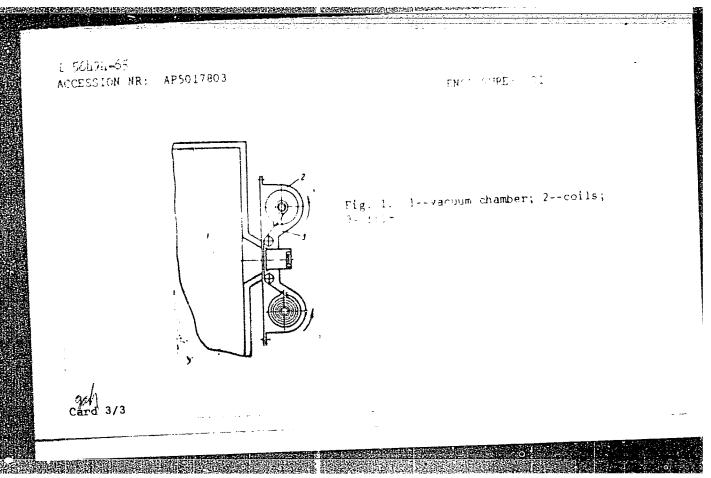
Tractors for 1965. Trakt. i sel khozmash. no.1:1-11 Ja 165.

(MIRA 18:3)

1. Gosudarstvennyy soyuznyy nauchno-issledovatel skiy traktornyy institut.

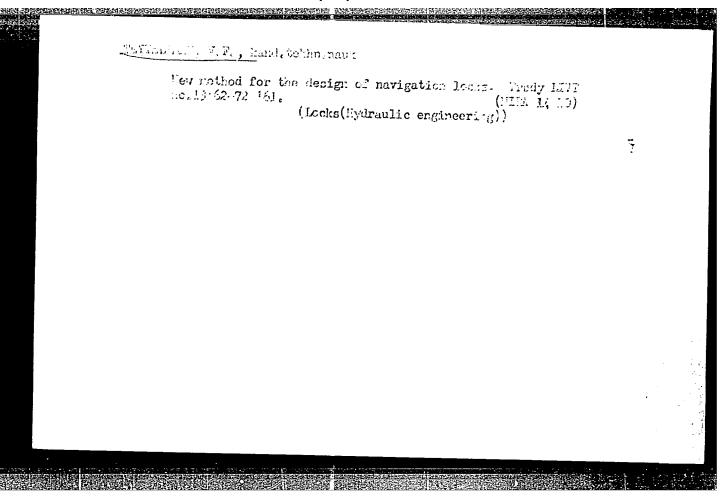
nessul oppungente errenterskirenterskerenter errenter betakker oppulæter het errenterskerenter betakkerenter b and the second of the second o ACCESSION NR: APSOL SOL 621 197 7 138 AUTHOR: Teytel'man, A. Ya.; Okhlopkov, V. I.; Odinochkin, V. D. minition A device for protecting inspection ports in high temperature vacuum installations. Class 18, No. 17141 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 11, 1965, 33-34 TOPIC TAGS: metal vapor condensation, test chamber ABSTRACT: This Author's Certificate introduces a device for protecting inspection its in right temperature vancom instellations from the executivity of o organism me in the control of the parent tiem eriting them. The constraint of the vice is designed for assuring continuous visual otservation and puriographing i the various processes taking place inside the vacuum namber. The mit is equipped With a និងទទី William tares ទូក្រី tree tripe sensition as the extreme transfer sentiles in the surface. Card 1/3

ACCESSION NP: AP5017903
ASSOCIATION: none
SUBMITTEC: 23Mar62 ENGL: 0: DTE MIE IE, MM
- NO REF SOV: 000 OTHER: 000



Dissertation: "Mydraulic Design of Locks Taking Into Consideration the Conditions of Settling of a Ship in the Lock." Cand Tech Sci. Loningrad Inst of Engineers of Mater Transport, Loningrad, 1953. (Referativnyy Emrnal--Mekwanika, Moscow, Apr 50)

SO: SUM 243, 19 Oct 1954



TEYVEL', A.L.; ALEKSEYEV, P.V.

New method of unrolling rolls of the shell of a hot-blast stove. Prom. stroi. 39 no.ll:33-36 '61. (MIRA 14:12)

1. Proyektnaya kontora tresta Stalimontazh.
(Air preheaters)

ALEKSEYEV, P.V., inzh.; TEYVEL', A.L., inzh.

Mechanized assembling of blast-furnace cooling units. Nov.tekh.
mont.i spets.rab. v stroi. 21 no.5:4-6 My '59.
(AIRA 12:7)

1. Proyektnaya kontora tresta Stal'montash.
(Blast furnaces--Cooling)

TEYVEL', A.L., inzh.; ALEKSEYEV, P.V., inzh.

TO BE THE PROPERTY OF THE PARTY OF THE PARTY

Unit for the manufacture of rolled stock for sheet elements up to 16 mm. thick. Prom.stroi. 40 no.11:53-56 62. (MIRA 15:12)

1. Proyektnaya kontora Gosudarstvennogo tresta po montazhu stal!nykh konstruktsiy Glavstal'konstruktsii Ministerstva stroitel'stva
SSSR.

(Steel, Structural)

BERISHVILI, G.A. Prinimali uchastiye: GABIDZASHVILI, V.D., inzh.; KACHARAYA, G.G., inzh.; KASHAKHASHVILI, G.N., inzh.; PIRTSKAHALAVA, D.T., inzh.; TEZADZE, A.I., inzh.

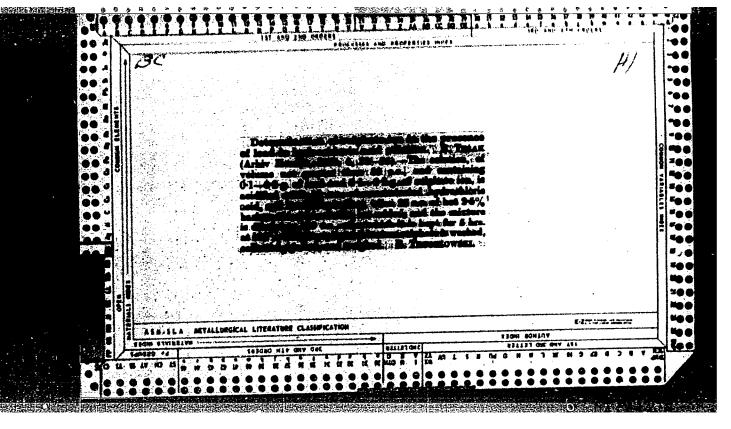
Results of experiments in studying the effective use of short-delay blasting. Trudy Inst.gor.dela AN Gruz.SSR 2:215-227 160.

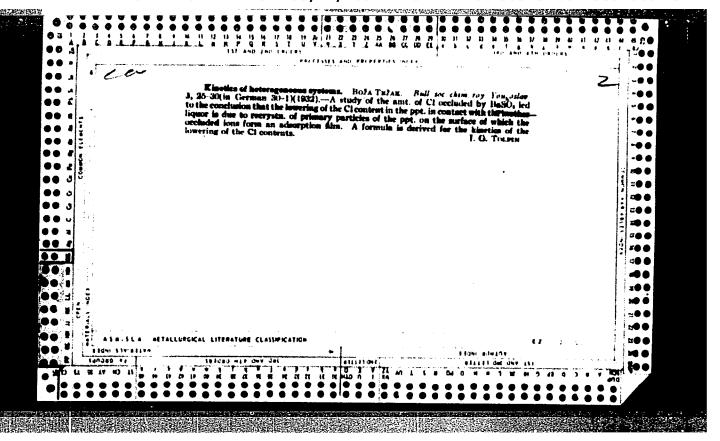
(MIHA 14:10)

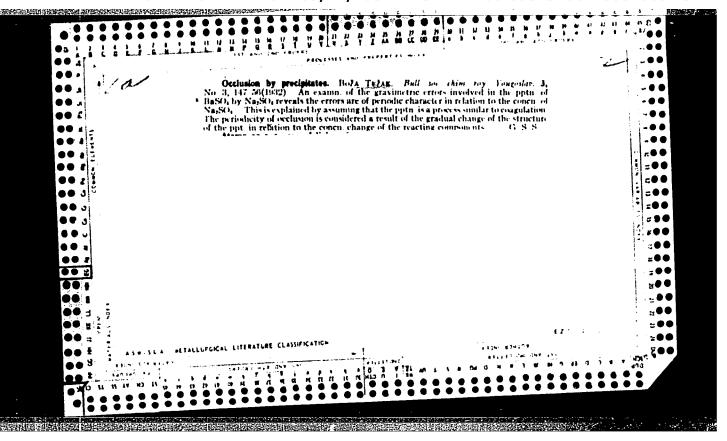
1. Institut gornogo dela All Gruzinskoy SSR (for Gabidzashvili, Kacharava, Kashakashvili, Pirtskhalava, Tevzadze).

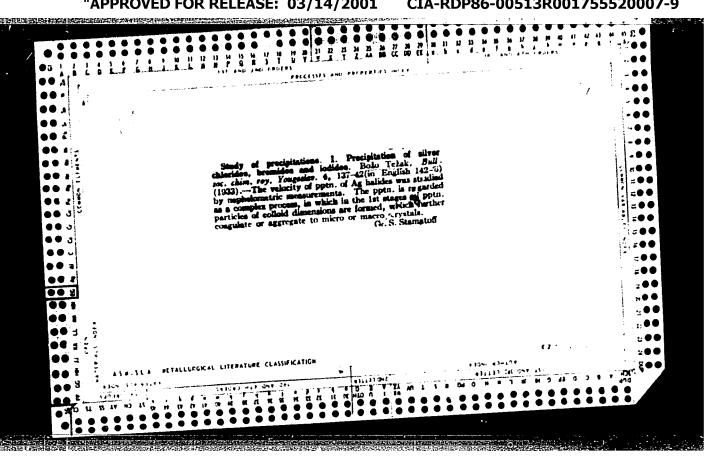
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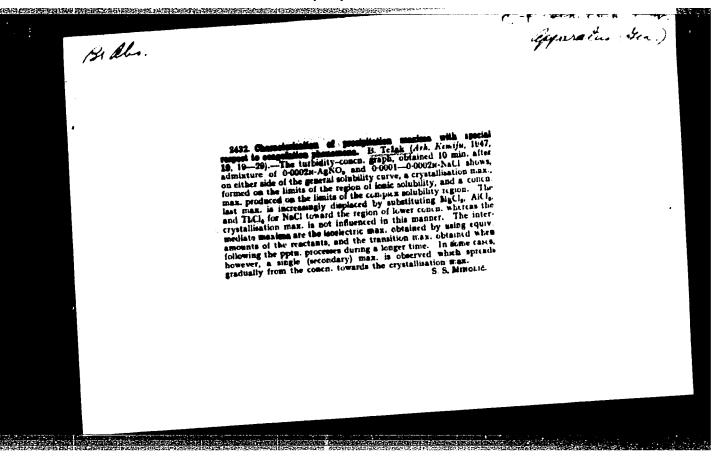
TEZAK, B.

Yugoslavia (430)

Technology

The aggregational character of the Weimarn's precipitation curve for BasO4. p. 9, ARHIV ZA KEMIJU. Vol. 19, no. 1-4, 1947.

Vol. 1, no. 14, Dec. 1952. UNCLASSIFIED.



"Coagulation of silver haliday by electrolytes and the Wolfgary Ostwald theory of the activity coefficient. B. 1979; R. 19 Martievity, and K. Schulz V. 1987. Recovery of the capit, has so the W. 1987. Consequent, including the capital field of the capital field

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between the congulating and the stabilizing ion, as well as from d_{stan}, which is the diam, of the double-layer atm. It was shown previously that d_{stan} is a function of k¹ and of the other expt. conditions, such as the d. of the electrage on the colloidal particles of the coagulum, etc. (C.1. 37, 4510); 42, 7602c). (2) The statistical distribution of electrages in the boundary layer, which is a function of c and of the conen, gradient of the stabilizing ion, as well as of the other ions present in the sol. (3). The nature and configuration of all component ions in the liquid phase. The detm of the crit conen, of the sol., C_{sd}, was done with high accuracy by measuring the changes with time in the intensity of the, Tyndall cone (TeZak, C.1. 30, 2170). The expts, were performed on a series of aq. AgNO₃ solus. (4 × 10⁻¹, 2 × 10⁻⁴, 4 × 10⁻⁴, and 1 × 10⁻³ N). For cach conen, of AgNO, the conen, of the stabilizing ion was varied gradually from that equiv. to the Ag ion to the 1 × 10⁻² N. The valence, 2, of the dominating cation was varied from 1 to 3 by experimenting separately with K⁺, Ba⁺⁺, and La⁺⁺ as nitrates. The cargulum was formed by slowly decanting 6 cc. of the AgNO₂ solu, lato 5 cc. of the aq. solu. of HCl, HBr, or

KI plus HNO. In each case the desired coagulating selt was introduced beforehand. The mixing was achieved by decanting back and forth repeatedly the prepal, sol, from one test-tube into another for 20-25 sec. The test-tubes with the sol were kept at 20° in a the mixing the integer of the exist. The chamber of the Tynchelometer was also kept there during the readings. The latter were taken after mixing, at intervals of 1, 2, 4, 5, 10, 20, and 60 min, in 3 spectral regions: blue, green, and red, the Next, the tynchallograms were plotted, with the readings (converted into upphelometric values) as ordinates and with the logs of the conen, of the stabilizing ion as abscissas. The crit, conen, of the original cation, Consultance evaluated from the slope of the tynchallometric curves corresponding to the 10-min, interval. This was done by extrapolating to zero turbidity, which apmoximated best the value obtainable by direct analysis. The f1 value was caled, from above data with the aid of the Wo. Ostwald equation after converting Conset, into ms values. In these calens, the conens, of all components were adjusted for the total vol. of the sol (10 cc.). The inatroment used for light-intensity measurements was a combination of a combina for the form vot, or the sor (10 cc.). The man most sector light-intensity measurements was a combination of a nephdometer (Zeiss) and a photometer (Patrick).

C. S. Shapiro

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TEZAK. B.

Yugoslavia (430)

Technology

Coprecipitation and the relationship between adsorption, occlusion and mixed crystal formation. p. 16, Arhiv Za Kemiju, Vol. 20, no. 1-4, 1948.

Wol. 1, no. 14, Dec. 1952. UNCLASSIFIED.

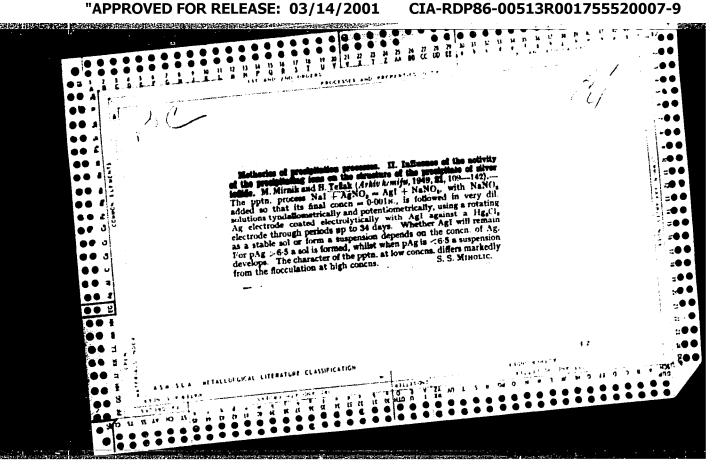
TEZAK. B.

Yugoslavia (430)

Technology

Methorics, a name for the physics and chemistry of the borderline region. p. 93; Methorics of the precipitation processes. I. Some concepts of crystal growth from electrolytic solutions. p. 96, ARHIV ZA KEMIJU, Vol. 21, no. 1-4, 1949.

East European Accessions List, Library of Congress Vol. 1, no. 14, Dec. 1952. UNCLASSIFIED.



TEZAK, B.

Yugoslavia (430)

Science-Periodicals

An analysis of the present state of chemical literature and the need for the establishment of an international chemical periodical. Text. in English. p. 206. ARHIV ZA KEMIJU. (Hrvatsko kemijsko drustvo i Sekcija kemicara Drustva

East European Accessions List, Library of Congress, Vol 2, No. 6, June 1953, Unclassified

"Card 1 of 2"

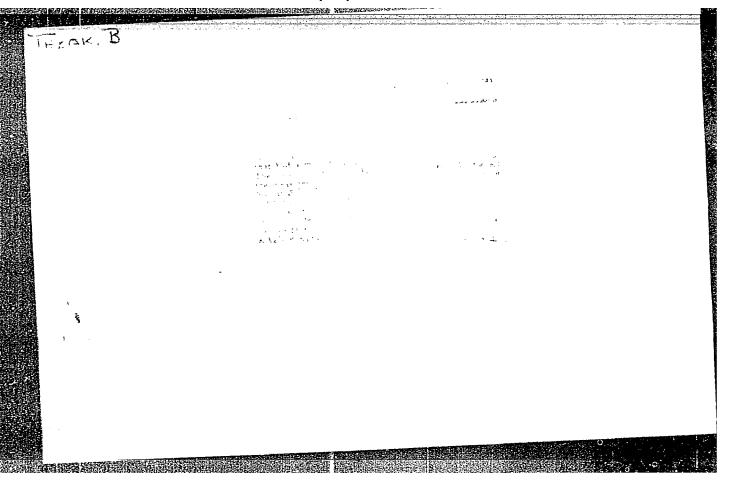
TEZAK, B.

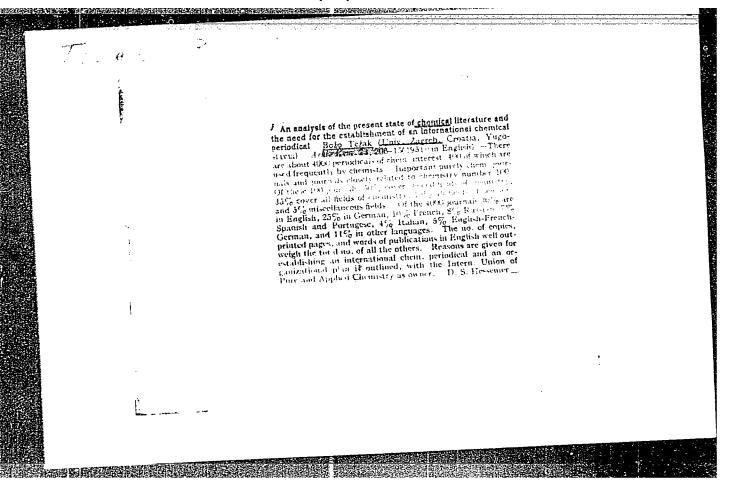
Yugoslavia (430)

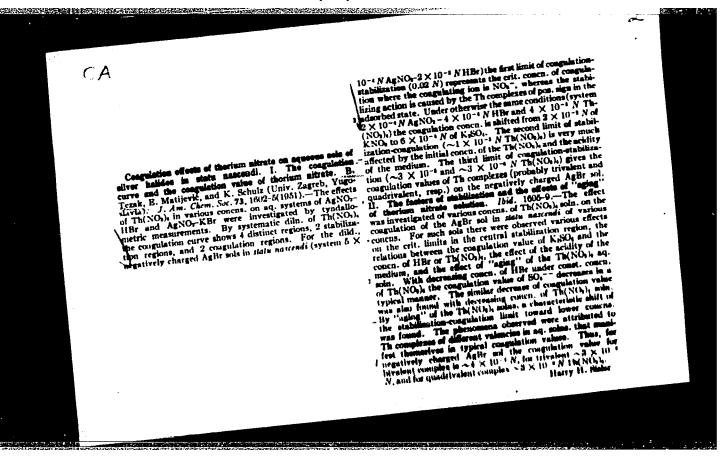
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Zagreb. /Quarterly of the Croatian Chemical
Society and the Chemical Section of the Croatian
Society of Engineers and Technicians. Some
articles written in English or German. Summaries
in English or other western languages/ Vol. 23,
no. 3/4, 1951

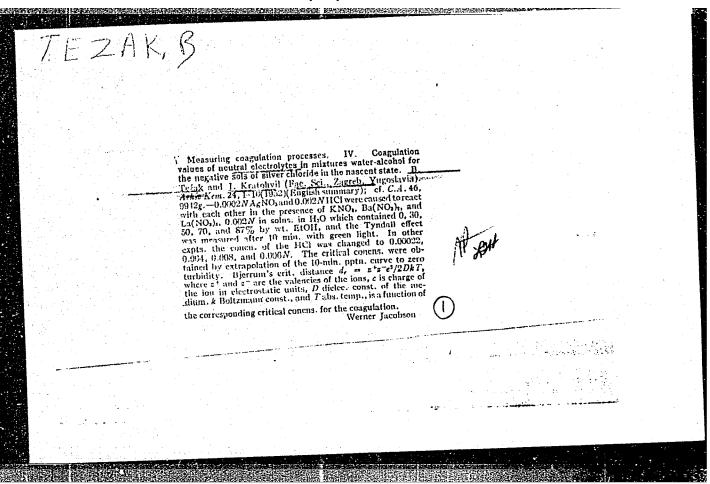
<u>Fast European Accessions</u> <u>List</u>, Library of Congress, Vol 2, No. 6, June 1953, Unclassified.

"Card 2 of 2"









TEZÍK, B.

"A note on the general scheme for the mechanism of coagulation and peptization," p. 25
(Arhiv Za Kemiju., Vol. 24, 1952, Zagreb)

So: Monthly List of The mechanism of coagulation and peptization, p. 25

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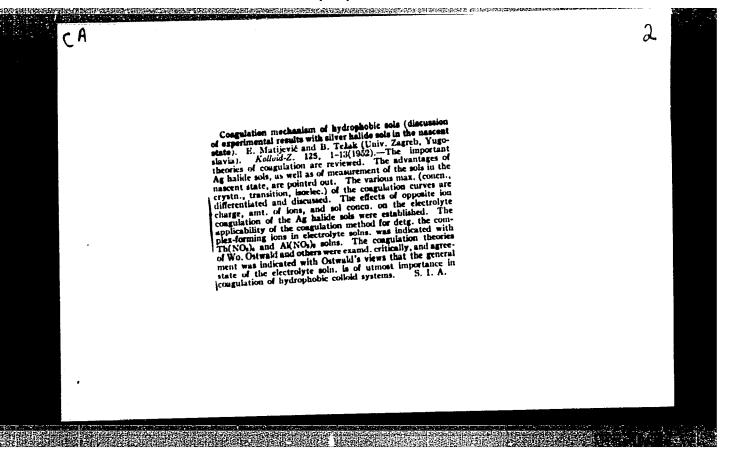
So: Monthly List of The mechanism of coagulation and peptization, p. 25

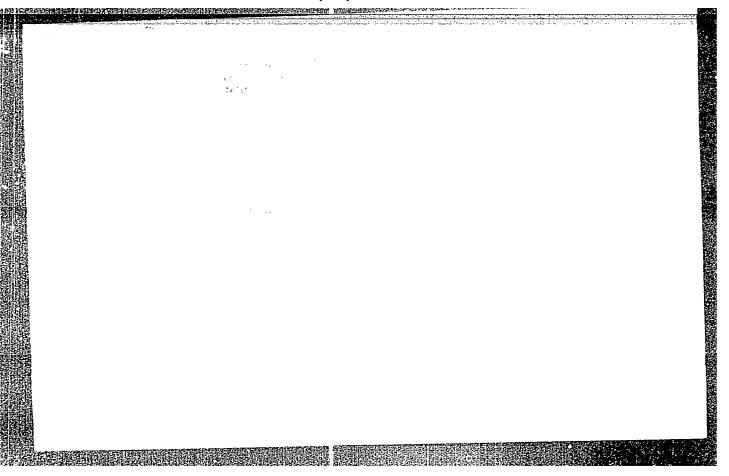
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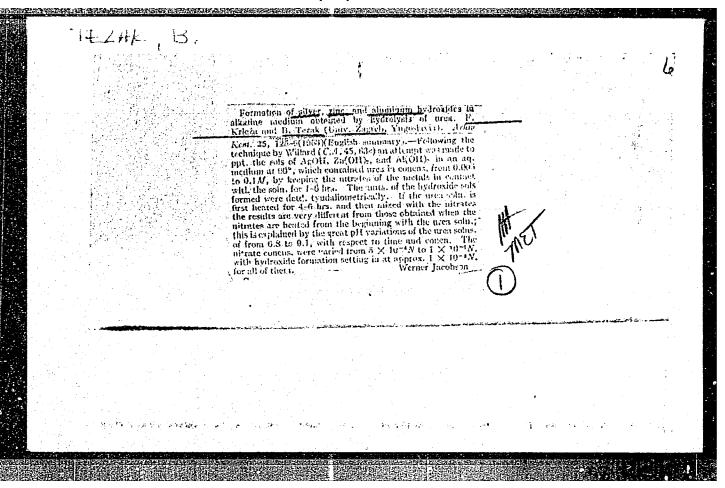
Tozak, B. Kratohvil-Babic, C.
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p. 67.

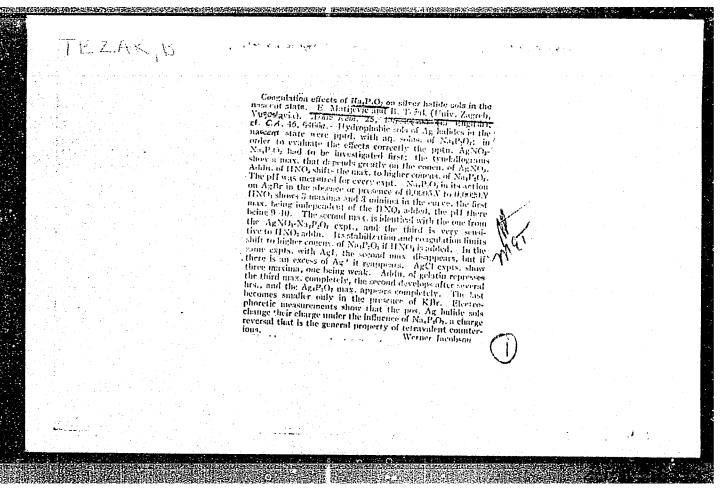
(Arhiv Za Kemiju, Vol. 24, 1952, Zagreb)

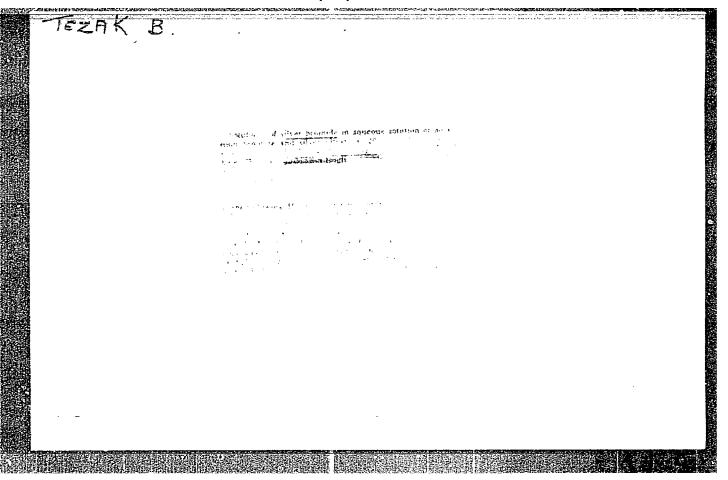
So: Monthly List of Bast Suromean Accessions, Vol. 2, No. 9, Library of Congress, September 1953, Uncl.

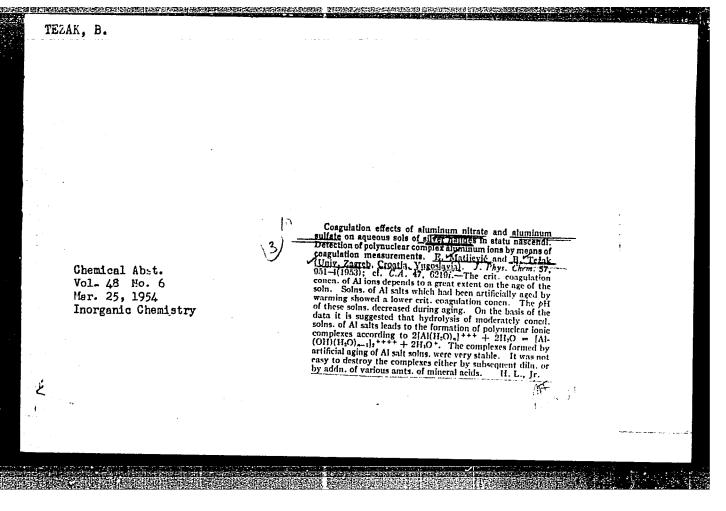


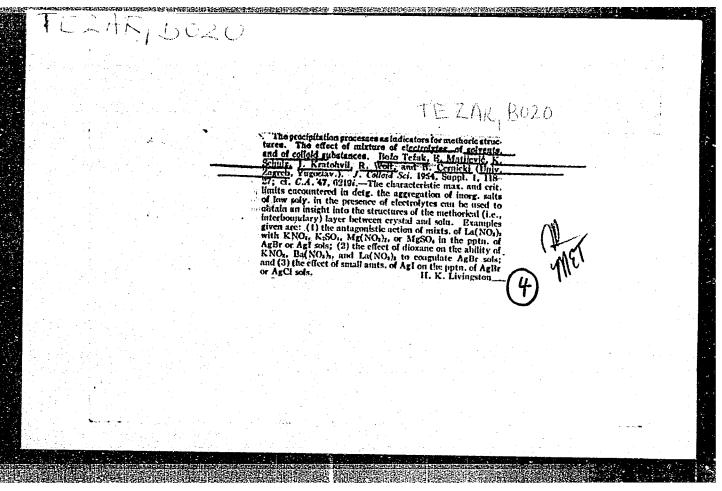


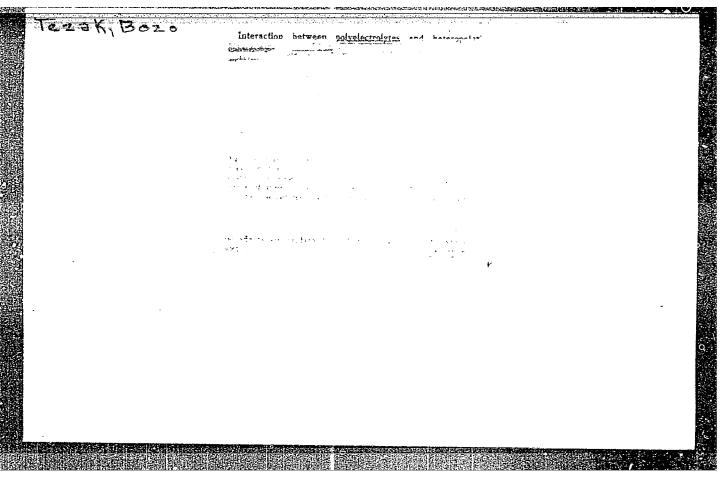


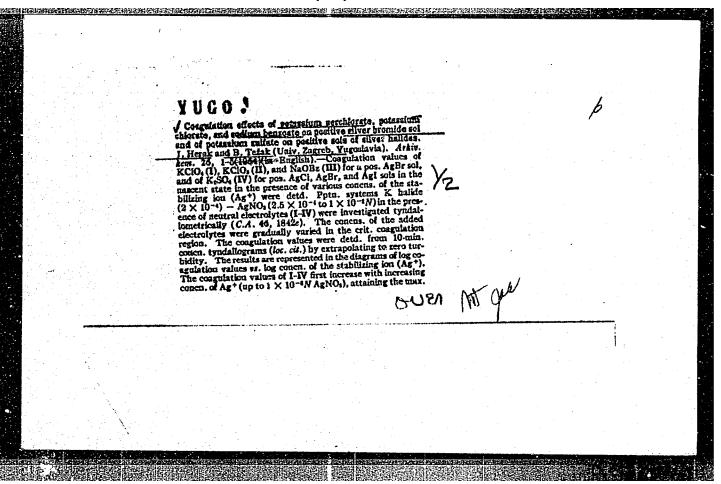


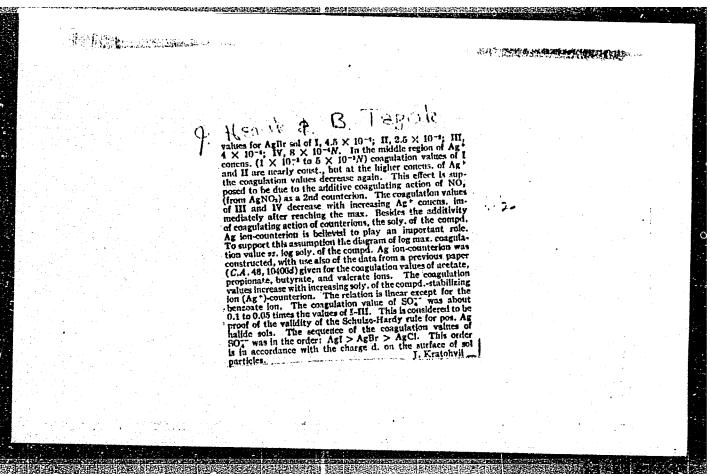












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